Miami-Miami Beach Transportation Corridor Study **BAY LINK** Presentation to the Miami-Dade Metropolitan Planning Organization July 29, 2004

Today's Purpose



- Review Bay Link Project and Purpose
- Review the Project Development Process

Present the Refined LPA

Review Next Steps

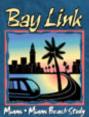
What Is Bay Link?

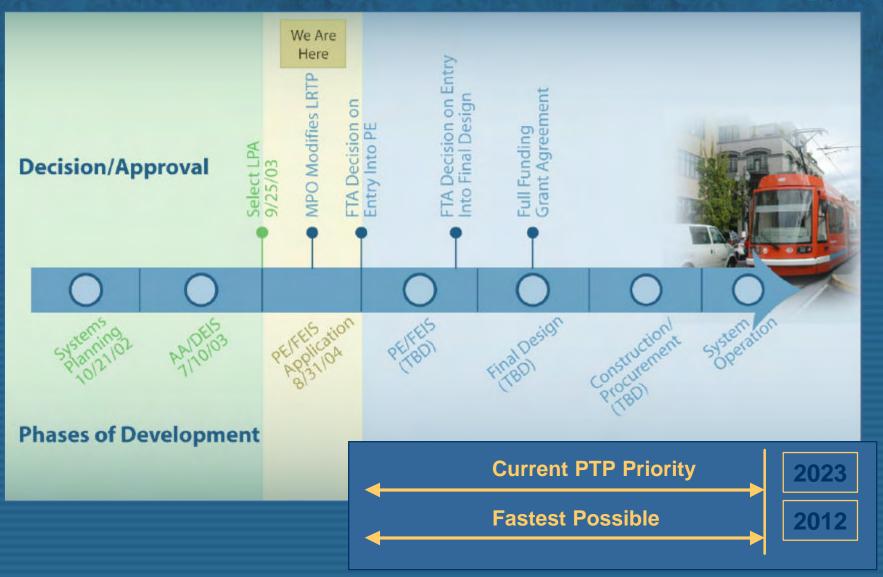


Streetcar Line Providing a Regional Transit Connection Between Miami and Miami Beach:

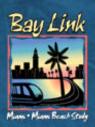
- Maximize tremendous transit investment to date with reliable high capacity regional connection.
- Provide support for current and future development and connect major public/private investment in region's economic core.
- Provide circulation in core areas.
- Serve as connection for future extensions.

Federal Transit Administration: Program Development Process





Phase 2 Products



Refine LPA Definition (Complete 7/30/04)

- Physical Alignment/Station Locations
- Operating Plan
- Ridership Projections
- Capital and Operations and Maintenance Cost
- Traffic Analysis

PE/FEIS Request (Submit 8/12/04)

- PE/FEIS Request Letter
- New Starts Report
- Project Management Plan
- PE/FEIS Scope of Work

Extensive Public Involvement (Continuous Over Phase 2)

Phase 2 Outreach Summary

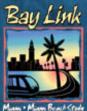


- 4 "Form & Fit" Meetings
- 18 Station Area Planning Meetings
- Presentation to DDA
- 2 Bay Link Advisory Committee Meetings
- Presentation to City of Miami Commission
- Presentation to City of Miami Beach Commission
- 12 "Focus Group" Presentations
- Presentations to MPO Board and Subcommittees





Refined Locally Preferred Alternative





Miami Streetcar and Bay Link Compatibility



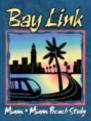
Bay Link & Street Car project carefully coordinated

- Using same street car technology
- Share the same alignment and station locations in downtown core area of overlap
- Same traction power system for both

General Phasing

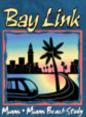
- Street car project will probably be built first (also Phase 1 of Bay Link)
- Balance of Bay Link (Phase 2) built according to MPO's Metropolitan Plan
- Future streetcar lines could be accommodated on core system

Vehicle Type - Streetcar



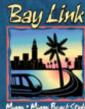


Vehicle Type - Streetcar





Bay Link Streetcar



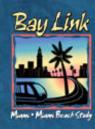


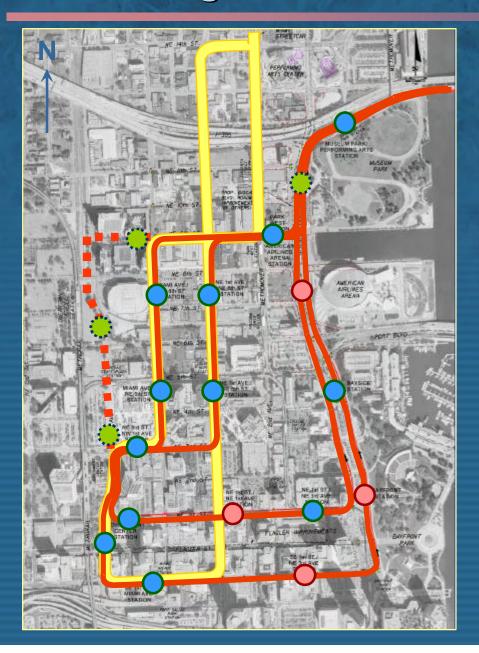
Streetcar Vehicle Characteristics



CHARACTERISTICS	SKODA INEKON
Height (Without Pantograph)	11' - 4"
Length 1	67' – 102'
Width	8' - 1"
Cost Per Car	\$2.0M
Floor Height	14"
Weight (AWO)	27 tons
# of Articulations	2
LOVE COP Portland Streetcar	40%
Operating/Max Speed	31 MPH / 45 MPH
Passenger Capacity	41 Seated; 154 total

Miami Alignment & Station Locations

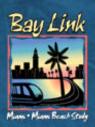




Legend:

- Bay Link Alignment
- Miami Streetcar Alignment
- Regional Station
- Transfer Stations
- Potential Stations

Macarthur Causeway Segment

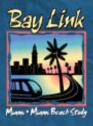




Legend

- Regional Station
- Transfer Station
- Regional Connector

City of Miami Beach

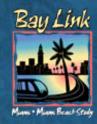




Outbound Track/Loop

Miami Streetcar

Miami Beach Alignment & Station Locations





Legend:

- Regional Connector
- Local Circulator
- Regional Station
- Circulator Station
- Transfer Station

Operating Plan



General Parameters

- Operate from 5:30 AM until 2:00 AM
- 20.5 hours service daily
- Operates on 5-minute headways during peaks
- Revenue Vehicles
 - 11 to operate Regional Service
 - 7 to operate Circulator Service

Selected Run Times

- Government Ctr. to Convention Ctr. > 27 min
- Government Ctr. to 5th St/Alton Rd. > 12 min
- Washington Ave/Lincoln Rd. to South Pointe > 7 min
- Alton Rd/16th St to AA Arena > 16 min

Miami Operations





Possible Future Extensions





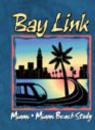
Miami Beach Operations



Possible Future Extension



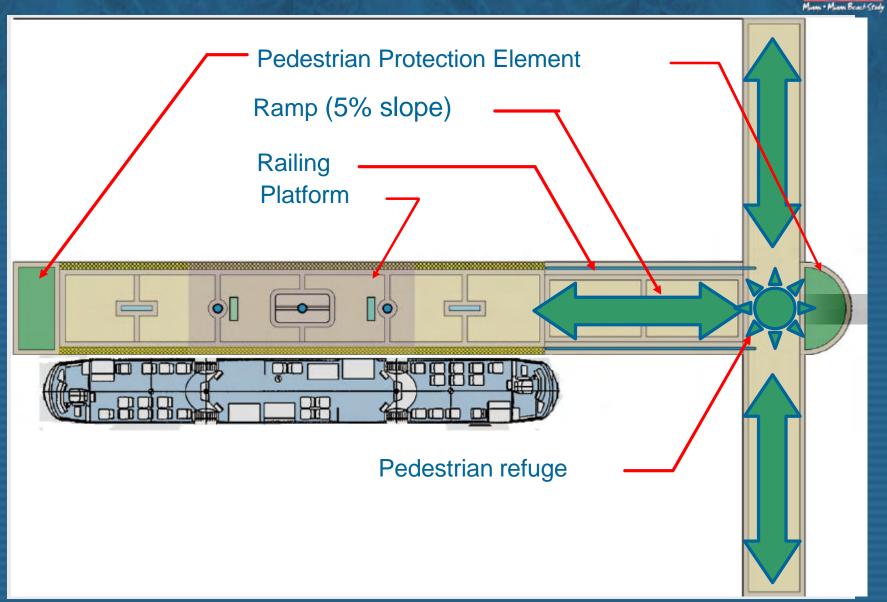
Train Arriving Station





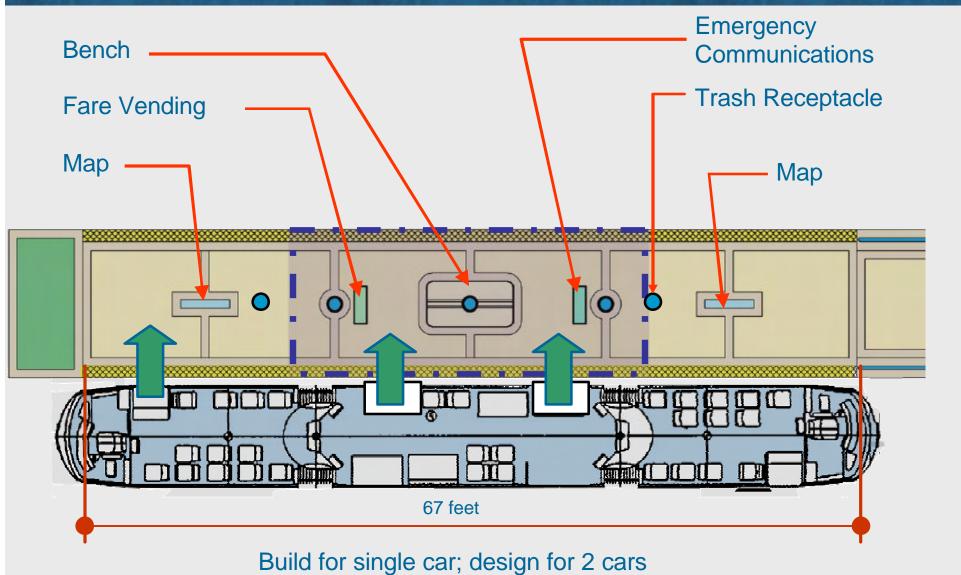
Design Parameters Pedestrian Access



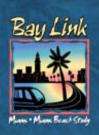


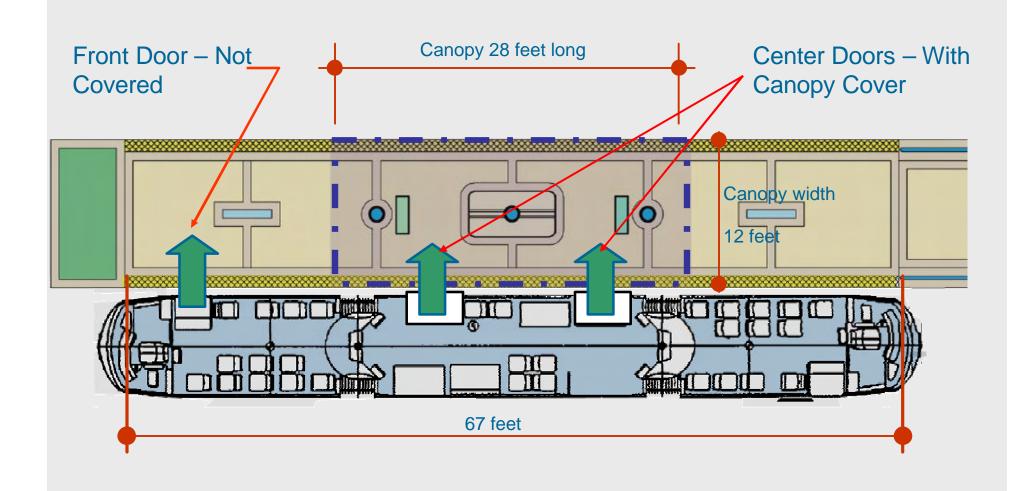
Design Parameters Station Elements



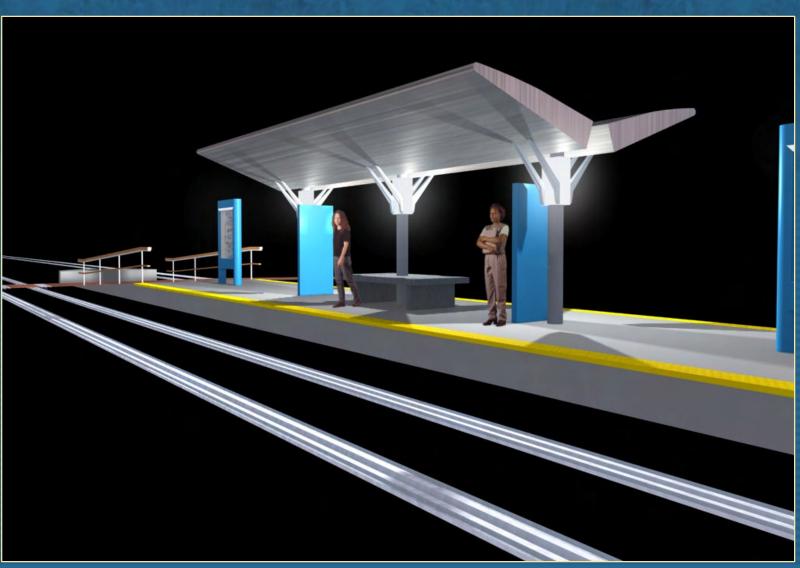


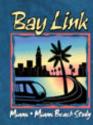
Design Parameters Platform Canopy



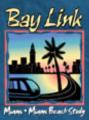






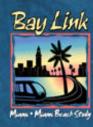


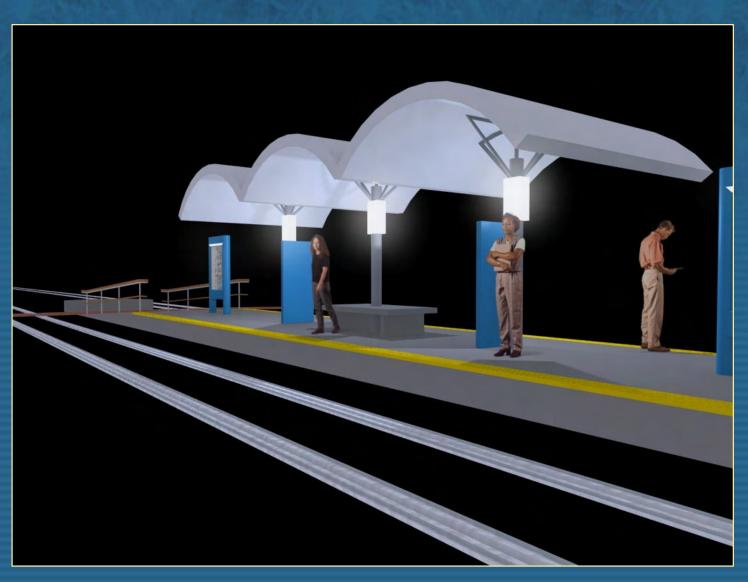




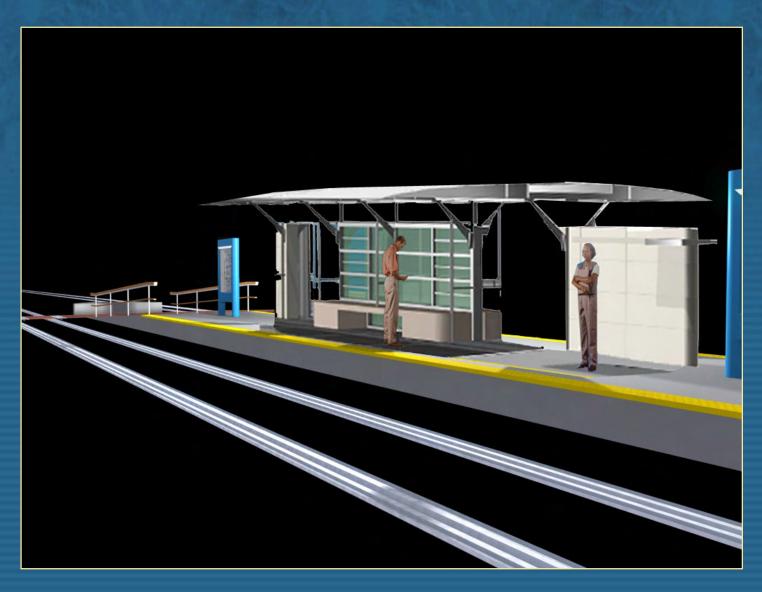


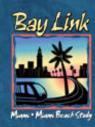














Miami Station Prototype





Government Center Station

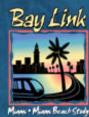
Miami Station Prototype





Government Center Station Single Platform

Miami Station Prototype





Government Center Station Double Platform

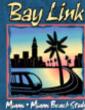
City of Miami





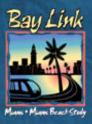
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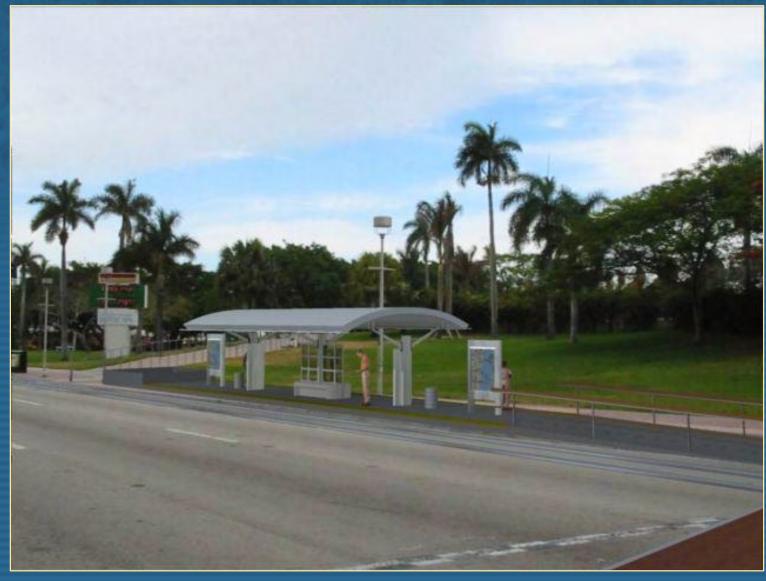
Bayfront Station





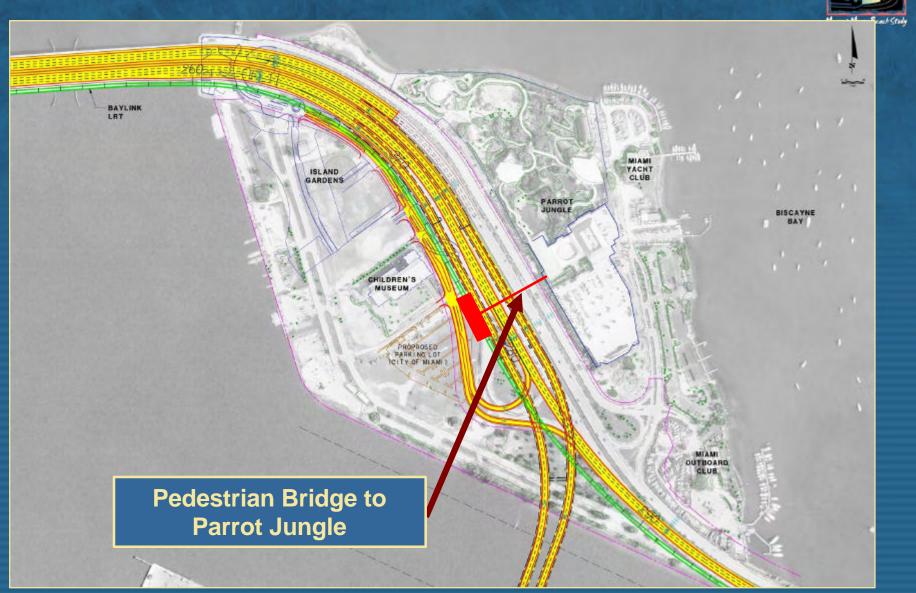
Bayfront Station





Watson Island Station





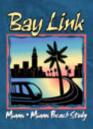
Elevated Station Prototype





Watson Island Station

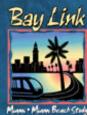
Miami Beach Station Prototype





Alton Rd. & 2nd Street Station

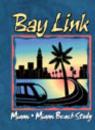
Miami Beach Station Prototype





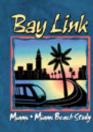
Alton Rd. & 2nd Street Station

Washington Ave. & Lincoln Rd. Station





Alton Rd. & 16th Street Station





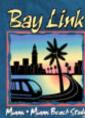
Capital Cost Summary



In Millions of 2004 Dollars

	Refined LPA	DEIS LPA
1.0 Guideway	\$135.52	\$121.30
2.0 Yard & Shop	\$26.57	\$22.10
3.0 System Elements	\$70.22	\$50.80
4.0 Passenger Stations	\$35.97	\$34.40
5.0 Special Conditions	\$42.43	\$43.90
6.0 Vehicles	\$43.22	\$37.00
7.0 Right-of-Way	\$10.63	\$5.70
8.0 Soft Costs	\$123.17	\$114.50
Total Cost	\$487.73	\$429.70
Increase	+\$58.03	

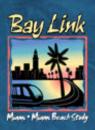
Statistical Comparison



CATEGORY	DEIS LPA	REFINED LPA
Route Length (Miles)	10.4	18.04
No. of Stations	25	42
No. of Vehicles	16 LRVs	21 Streetcars
Daily Ridership Annual Ridership	15,483 4.8 M	19,677 (<mark>1</mark>) 6.1 M
Annual O&M Cost (Millions 2004 \$)	\$10.5	\$12.1 ⁽¹⁾
Capital Cost (Millions 2004 \$)	\$429.7	\$ 487.7

(1) Subject to review of draft estimates.

Statistical Differences



CATEGORY	DEIS LPA	REFINED LPA	DIFFERENCES
Annual Ridership (Millions)	4.8	6.1	1.3 (27.1%)
Annual O&M Costs (Millions 2004 \$)	\$10.5	\$12.1	\$1.6 (15.2%)
Capital Cost (Millions 2004 \$)	\$429.7	\$ 487.7	\$58.03 (13.5%)

Financial Plan



- Bay Link is part of People's Transportation Plan (PTP)/Included in LRTP.
- Pro-Forma Assumptions

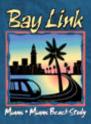
Capital Cost	O&M Costs	
50% Federal (5309)	35% Fare Box	
25% State (FDOT)	65% PTP	
25% Local (PTP)		

- Carefully Coordinated with Miami Streetcar Project
 - Potential for sharing cost
 - Preserving Federal Options
 - Take Advantage of creative alternatives

Next Steps



- Submit PE/FEIS Request to FTA (8/12/04)
- FTA Ranks Project, Authorizes PE/FEIS (9/30/04)
- MPO Reassesses Bay Link's Regional Priority (11/19/04)
- MDT Selects Consultant / Starts PE/FEIS (1/14/05)



Questions & Concerns